

Copy of Pending Claims

This listing of claims is a courtesy copy of the pending claims. No amendments have been made in this Reply.

Listing of Claims:

1. (original) A method for establishing headroom for a mobile station operating in a wireless communication system comprising the steps of:
determining a communication channel variance condition; and
establishing a headroom value based on the communication channel variance condition.
2. (original) A method according to claim 1 wherein a mobile station performs the steps of determining and establishing.
3. (original) A method according to claim 2 wherein the mobile station determines a maximum data rate based on the headroom value and sends the maximum data rate to a base station.
4. (original) A method according to claim 2 wherein the mobile station determines a maximum data rate based on the headroom value and sends a rate adjustment request to a base station.
5. (original) A method according to claim 2 further comprising the steps of:
detecting a battery condition of the mobile station; and
modifying the headroom value based on the battery condition.

6. (original) A method according to claim 5 wherein the step of modifying the headroom value based on the battery condition comprises:
 - determining if the battery condition relates to a low battery level; and
 - if the battery condition relates to a low battery level, increasing the headroom value.
7. (original) A method according to claim 2 wherein the step of determining a communication channel variance condition includes measuring a variance in a primary pilot power.
8. (original) A method according to claim 1 wherein a base station performs the steps of determining and establishing.
9. (original) A method according to claim 8 wherein the step of determining a communication channel variance condition includes examination of an inner loop power control bit stream.
10. (original) A method according to claim 8 further comprising the step of:
 - sending the headroom value to the mobile station.
11. (original) A method according to claim 8 further comprising the step of:
 - determining a data rate assignment for a mobile station using the headroom value and
 - sending the data rate assignment to the mobile station.
12. (original) A mobile station comprising:
 - means for determining a communication channel variance condition; and
 - means for establishing a headroom value based on the communication channel variance condition.

13. (original) A mobile station according to claim 12 further comprising:
means for determining a maximum data rate based on the headroom value; and
means for sending the maximum data rate to a base station.
14. (original) A mobile station according to claim 12 further comprising:
means for determining a maximum data rate based on the headroom value; and
means for sending a rate adjustment request to a base station.
15. (original) A mobile station according to claim 12 further comprising:
means for detecting a battery condition of the mobile station; and
means for modifying the headroom value based on the battery condition.
16. (original) A wireless communication system comprising:
a base station;
at least one mobile station;
means for determining a communication channel variance condition; and
means for establishing a headroom value based on the communication channel variance condition.
17. (original) A wireless communication system according to claim 16 further comprising:
means for determining a data rate based on the headroom value.
18. (original) A wireless communication system according to claim 17 further comprising:
means for sending the data rate between the base station and said at least one mobile station.
19. (original) A wireless communication system according to claim 16 further comprising:
means for determining a battery condition of said at least one mobile station; and
means for modifying the headroom value based on the battery condition.

20. (original) A wireless communication system according to claim 19 further comprising:
- means for determining a data rate based on the headroom value; and
 - means for sending the data rate between said at least one mobile station and the base station.